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FEDERAL - STATE - PRIVATE
COOPERATIVE SNOW SURVEYS

U. S. DEPT. OF AGRICULTURE
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CURRENT SERIAL RECORD

WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
MONTANA

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
and
MONTANA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State, and private organizations listed on the inside back cover of this report.

AS OF
JAN. 1, 1966

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data or reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
WESTERN UNITED STATES _____	MONTHLY (FEB.-MAY) _____	PORTLAND, OREGON _____	ALL COOPERATORS
BASIC DATA SUMMARY _____	OCTOBER 1 _____	PORTLAND, OREGON _____	ALL COOPERATORS
STATES			
ALASKA _____	MONTHLY (MAR.-MAY) _____	PALMER, ALASKA _____	ALASKA S.C.D.
ARIZONA _____	SEMI-MONTHLY _____ (JAN.15 - APR.1)	PHOENIX, ARIZONA _____	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO _____	MONTHLY (FEB.-MAY) _____	FORT COLLINS, COLORADO _____	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO _____	MONTHLY (JAN.-JUNE) _____	BOISE, IDAHO _____	IDAHO STATE RECLAMATION ENGINEER
MONTANA _____	MONTHLY (JAN.-JUNE) _____	BOZEMAN, MONTANA _____	MONT. AGR. EXP. STATION
NEVADA _____	MONTHLY (JAN.-MAY) _____	RENO, NEVADA _____	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON _____	MONTHLY (JAN.-JUNE) _____	PORTLAND, OREGON _____	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH _____	MONTHLY (JAN.-JUNE) _____	SALT LAKE CITY, UTAH _____	UTAH STATE ENGINEER
WASHINGTON _____	MONTHLY (FEB.-JUNE) _____	SPOKANE, WASHINGTON _____	WN. STATE DEPT. OF CONSERVATION
WYOMING _____	MONTHLY (FEB.-JUNE) _____	CASPER, WYOMING _____	WYOMING STATE ENGINEER

PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA _____	MONTHLY (FEB.-JUNE) _____	WATER RESOURCES SERVICE, DEPT. OF LANDS, FOREST AND WATER RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA _____	MONTHLY (FEB.-MAY) _____	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.

WATER SUPPLY OUTLOOK
FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS
for
MONTANA

Report Prepared

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TABLE OF CONTENTS

	Page
WATER SUPPLY OUTLOOK	1
MAP OF SNOW COURSES AND SOIL MOISTURE STATIONS	2
SNOW SURVEY DATA - December 1, 1965	3
SNOW SURVEY DATA - January 1, 1966	4-5
SOIL MOISTURE DATA	6-12
RESERVOIR STORAGE DATA	13
LIST OF COOPERATORS	Inside Back Cover


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*
* The current outlook is for below average
* water supplies in all drainages in Montana.
* Snow accumulation prior to January 1 was
* about 50 percent average. Soil moisture
* is generally near or above average and will
* help offset low snow accumulation. Stream-
* flow during the spring and summer months will
* depend largely on the snow accumulation during
* the next four months.
*
* * * * *

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Four snow pillows are now in operation in Montana. These pillows are 12 foot diameter butyl rubber filled with methanol alcohol. Continuous records of snow accumulation and melt are being obtained by either on-site recorders or remote telemetry. Beginning with the February 1 publication, daily snow water contents since November 1 will be plotted graphically for each installation. Values for the December 1 and January 1 water contents are published in this issue.

Reservoir storage is generally near or above average in both irrigation and multipurpose reservoirs.

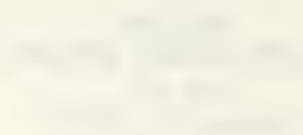


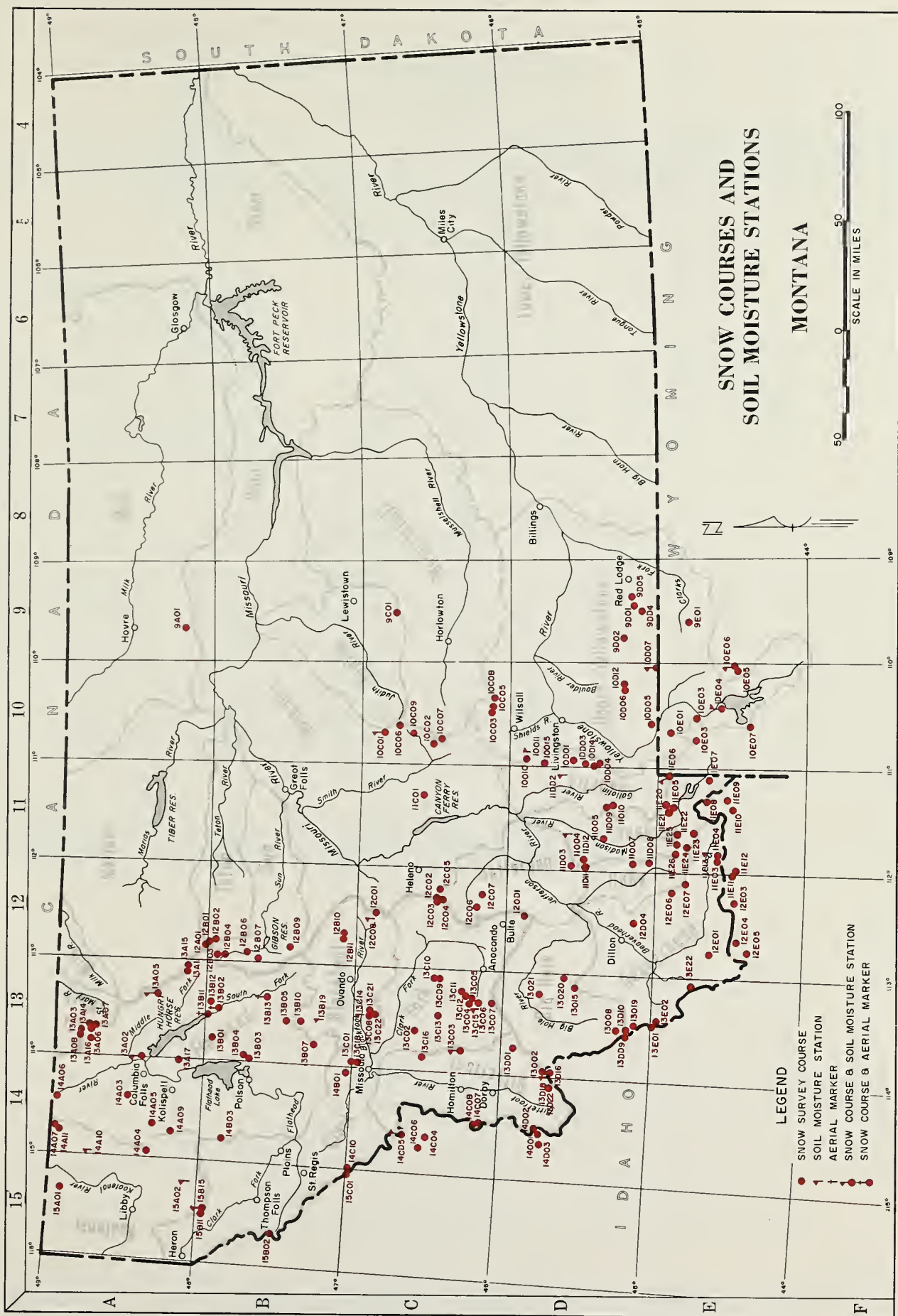
TABLE 1. SUMMARY OF DATA FOR THE YEAR 1964									
1	2	3	4	5	6	7	8	9	10
The following table shows the results of the survey conducted in the year 1964. The data is presented in a summary form, showing the number of respondents for each category.									
Category	1	2	3	4	5	6	7	8	9
1. Age Group	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94	95-104
2. Sex	Male	Female	Male	Female	Male	Female	Male	Female	Male
3. Education	High School	College	Graduate	Postgraduate	Other	Other	Other	Other	Other
4. Occupation	Professional	Managerial	Technical	Skilled	Unskilled	Other	Other	Other	Other
5. Income	Low	Medium	High	Very High	Other	Other	Other	Other	Other
6. Marital Status	Single	Married	Divorced	Widowed	Other	Other	Other	Other	Other
7. Religion	Protestant	Catholic	Jewish	Muslim	Hindu	Buddhist	Sikh	Other	Other
8. Nationality	British	Irish	Scottish	Welsh	Other	Other	Other	Other	Other
9. Residence	Urban	Suburban	Rural	Other	Other	Other	Other	Other	Other
10. Duration of Residence	Less than 5 years	5 to 10 years	11 to 15 years	16 to 20 years	21 to 25 years	26 to 30 years	31 to 35 years	36 to 40 years	41 to 45 years

The following table shows the results of the survey conducted in the year 1964. The data is presented in a summary form, showing the number of respondents for each category.

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The following table shows the results of the survey conducted in the year 1964. The data is presented in a summary form, showing the number of respondents for each category.



SNOW SURVEY DATA

AS OF DECEMBER 1, 1965

(inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	WATER CONTENT	
						LAST YEAR	AVERAGE

COLUMBIA RIVER BASIN

CLARK FORK RIVER

13C13	Black Pine Pillow	7100	11/30	SP	1.4	-	-
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GALLATIN RIVER

10D15	Bridger Bowl Pillow	7250	12/1	SP	3.9	-	-
10D13	Lick Creek Pillow	6860	12/1	SP	1.3	2.9	-
10D16	Shower Falls Pillow	8100	12/1	SP	4.5	-	-

SP - Snow pillow observation - water content only.

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(Rev. 10-1-60)

1. Agency Use Only	2. Date of Report	3. Title of Report	4. Author(s)	5. Contract or Grant Number	6. Project Number	7. Report Number	8. Page Number
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ABSTRACT

(Optional)

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(Optional)

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(Optional)

(Optional)

(Optional)

(Optional)

(Optional)

(Optional)

(Optional)

SNOW SURVEY DATA

AS OF JANUARY 1, 1966

SNOW COURSE			CURRENT DATA			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	WATER CONTENT	
NO.	NAME	ELEVATION				LAST YEAR	AVERAGE

(inches)

COLUMBIA RIVER BASIN

FLATHEAD RIVER

13A02	Desert Mountain	5600	12/30	23	5.0	10.3	6.6*
14A03	Hell Roaring Divide	5770	12/30	36	8.3	22.2	-
13B13	Holbrook	4530	12/29	6	1.0A	6.3A	3.3*
13A05	Marias Pass	5250	12/29	24	4.9	10.8	8.0
13B02	Spotted Bear Mountain	7000	12/29	18	3.2A	9.0A	7.6*
13B11	Twin Creeks	3580	12/29	8	1.2A	7.8A	5.8*

CLARK FORK RIVER

13C13	Black Pine	7100	12/28	12.	2.2	-	-
13C13	Black Pine Pillow	7100	12/28	SP	2.4	-	-
13B10	Coyote Hill	4200	1/3	15	2.4	6.1	5.0*
15B02	Lookout	5250				17.6	17.6*
13C21	Lubrecht Forest No. 3	5450	1/2	10	1.6	3.1	3.3*
13C22	Lubrecht Forest No. 4	4650	1/2	5	1.1	1.8	1.8*
13C08	Lubrecht Forest No. 6	4040	1/2	5	0.8	2.4	1.9*
13C18	Spring Gulch	6000	12/31	16	2.6	8.2	4.8*
13C07	Storm Lake	7780	12/29	10	1.8	8.4	6.1*
13C01	Stuart Mountain	7400	12/31	37	8.3	20.2	11.6*
14B01	TV Mountain	6800	1/1	27	4.4	10.7	7.2*

BITTERROOT RIVER

13D02	Gibbons Pass	7100	12/29	24	4.6	16.4	10.8*
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A - Aerial observation - water content estimated.
 SP - Snow pillow observation - water content only.

- 4 -

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD). *ADJUSTED AVERAGE

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NAME	STUDENT ID	DATE	TIME	LOCATION

SCHEDULE					
DAY	TIME	COURSE	INSTRUCTOR	SECTION	ROOM
MON	8:00	PHYSICS 101	DR. SMITH	001	PHYS 101
TUE	8:00	CHEMISTRY 102	DR. JONES	002	CHEM 102
WED	8:00	BIOLOGY 103	DR. BROWN	003	BIO 103
THU	8:00	HISTORY 104	DR. WHITE	004	HIST 104
FRI	8:00	PSYCHOLOGY 105	DR. GREEN	005	PSY 105
SAT	8:00	PHILOSOPHY 106	DR. BLACK	006	PHIL 106
SUN	8:00	RELIGIOUS STUDIES 107	DR. GRAY	007	REL 107
MON	10:00	PHYSICS 101	DR. SMITH	001	PHYS 101
TUE	10:00	CHEMISTRY 102	DR. JONES	002	CHEM 102
WED	10:00	BIOLOGY 103	DR. BROWN	003	BIO 103
THU	10:00	HISTORY 104	DR. WHITE	004	HIST 104
FRI	10:00	PSYCHOLOGY 105	DR. GREEN	005	PSY 105
SAT	10:00	PHILOSOPHY 106	DR. BLACK	006	PHIL 106
SUN	10:00	RELIGIOUS STUDIES 107	DR. GRAY	007	REL 107
MON	12:00	PHYSICS 101	DR. SMITH	001	PHYS 101
TUE	12:00	CHEMISTRY 102	DR. JONES	002	CHEM 102
WED	12:00	BIOLOGY 103	DR. BROWN	003	BIO 103
THU	12:00	HISTORY 104	DR. WHITE	004	HIST 104
FRI	12:00	PSYCHOLOGY 105	DR. GREEN	005	PSY 105
SAT	12:00	PHILOSOPHY 106	DR. BLACK	006	PHIL 106
SUN	12:00	RELIGIOUS STUDIES 107	DR. GRAY	007	REL 107
MON	2:00	PHYSICS 101	DR. SMITH	001	PHYS 101
TUE	2:00	CHEMISTRY 102	DR. JONES	002	CHEM 102
WED	2:00	BIOLOGY 103	DR. BROWN	003	BIO 103
THU	2:00	HISTORY 104	DR. WHITE	004	HIST 104
FRI	2:00	PSYCHOLOGY 105	DR. GREEN	005	PSY 105
SAT	2:00	PHILOSOPHY 106	DR. BLACK	006	PHIL 106
SUN	2:00	RELIGIOUS STUDIES 107	DR. GRAY	007	REL 107
MON	4:00	PHYSICS 101	DR. SMITH	001	PHYS 101
TUE	4:00	CHEMISTRY 102	DR. JONES	002	CHEM 102
WED	4:00	BIOLOGY 103	DR. BROWN	003	BIO 103
THU	4:00	HISTORY 104	DR. WHITE	004	HIST 104
FRI	4:00	PSYCHOLOGY 105	DR. GREEN	005	PSY 105
SAT	4:00	PHILOSOPHY 106	DR. BLACK	006	PHIL 106
SUN	4:00	RELIGIOUS STUDIES 107	DR. GRAY	007	REL 107

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SNOW SURVEY DATA

AS OF JANUARY 1, 1966

(inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	WATER CONTENT	
						LAST YEAR	AVERAGE

MISSOURI RIVER BASIN

BEAVERHEAD RIVER

12E03	Camp Creek	6800	12/30	19	3.3	6.5	3.7
11E12	Kilgore	6200	12/28	16	2.0	5.9	4.3*

JEFFERSON RIVER

12D01	Pipestone Pass	7200	12/28	8	1.0	2.0	2.4*
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MADISON RIVER

11E09	Big Springs	6500	12/29	23	3.3	13.3	7.9
11E05	Hebgen Dam	6550	12/28	12	1.3	7.3	5.4
11E10	Island Park	6315	12/29	19	2.5	11.5	6.1
10E02	Norris Basin	7500				7.2	4.3*
11E08	Valley View	6500	12/29	22	3.4	11.2	5.5
11E07	West Yellowstone	6700	12/28	15	2.0	8.0	4.9

GALLATIN RIVER

10D14	Arch Falls	7350	1/3	11	1.9	-	-
10D15	Bridger Bowl Pillow	7250	12/30	SP	5.7	-	-
10D04	Devil's Slide	8100	1/3	19	4.0	-	-
10D13	Lick Creek Pillow	6860	12/30	SP	2.0	4.3	-
10D16	Shower Falls Pillow	8100	1/3	SP	6.5	-	-
11E06	Twenty-One Mile	7150	12/28	23	3.8	13.8	8.0

MISSOURI MAIN STEM

12C05	Chessman Reservoir	6200	1/3	7	0.3	1.4	2.1
12C02	Ten Mile Lower	6600	1/5	13	1.5	3.0	3.4
12C03	Ten Mile Middle	6800	1/4	18	2.1	5.3	5.1
12C04	Ten Mile Upper	8000	1/4	21	2.7	7.5	6.3

UPPER YELLOWSTONE

10E03	Canyon	7750	12/30	28	4.6	12.6	6.0
10E06	East Entrance	7000	12/30	26	4.7	6.3	4.4*
9D05	Grizzly Peak	8400	12/30	20	5.2	6.8	4.0*
10E04	Lake Camp	7850	12/30	23	2.8	5.7	4.0*
10E01	Lupine Creek	7300				7.0	4.4*
10D07	Northeast Entrance	7400	1/1	12	1.8	5.6	3.9
10E05	Sylvan Pass	7100	12/29	22	3.7	10.1	5.6*
10E07	Thumb Divide	7900				18.1	8.9*

SP - Snow pillow observation - water content only.

SOIL MOISTURE DATA

AS OF JULY 1, 1965

(Inches)

SOIL MOISTURE STATION			SOIL PROFILE		CURRENT DATA		PAST RECORD	
NO.	NAME	ELEVATION	DEPTH	FIELD CAPACITY	DATE OF SURVEY	SOIL MOISTURE	LAST YEAR	**AVERAGE

COLUMBIA RIVER BASIN

Kootenai

15B15M	Baree Trail	3800	48	7.5	7/5	5.8	-	-
14A10M	Murphy Lake R.S.	3000	48	22.6	7/1	20.4	-	-
15A02M	Raven R.S.	3050	48	23.0	7/5	20.3	-	-

Flathead

13A02M	Desert Mountain	5600	54	8.4	-	-	-	8.2
13A05M	Marias Pass	5250	54	6.5	7/8	5.3	5.0	5.2

Clark Fork

13C15M	Georgetown Lake	6450	48	9.0	6/30	7.7	7.4	7.4
13B19M	Seeley Lake R.S.	4030	48	11.9	-	-	-	-
13C03M	Skalkaho Summit	7260	48	10.8	6/30	10.1	-	-

Bitterroot

13D18M	Gibbons Pass	7100	48	7.1	6/30	6.3	6.5	6.5
14C05M	Lolo Pass	5250	48	10.6	6/28	10.3	10.3	-

MISSOURI RIVER BASIN

Beaverhead

11E13M	Lakeview	6700	48	15.3	7/2	15.4	14.8	14.2
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Madison

10D04M	Red Bluff	4800	40	4.7	-	-	1.2	-
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Gallatin

11D02M	College Site	4856	54	14.5	7/2	15.2	11.0	9.7
11E06M	Twenty-One Mile	7150	48	10.0	6/28	9.2	7.6	-

Missouri Main Stem

10C01M	Kings Hill	7420	48	11.8	7/6	10.8	10.9	-
12C08M	Stemple Pass	6350	48	5.9	6/2	5.1	5.0	-

Yellowstone

10D11M	Battle Ridge	6020	48	17.6	7/1	15.5	14.4	14.4
10D07M	Northeast Entrance	7350	48	9.4	6/30	9.8	8.8	8.6

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CHICAGO, ILL. 60637

1970-1971

NAME	ADDRESS	CITY	STATE	ZIP
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NAME

1	2	3	4	5	6	7	8	9	10
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11	12	13	14	15	16	17	18	19	20
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21	22	23	24	25	26	27	28	29	30
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31	32	33	34	35	36	37	38	39	40
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NAME

41	42	43	44	45	46	47	48	49	50
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51	52	53	54	55	56	57	58	59	60
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61	62	63	64	65	66	67	68	69	70
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71	72	73	74	75	76	77	78	79	80
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NAME

81	82	83	84	85	86	87	88	89	90
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SOIL MOISTURE DATA

AS OF AUGUST 1, 1965

(Inches)

SOIL MOISTURE STATION			SOIL PROFILE		CURRENT DATA		PAST RECORD	
NO.	NAME	ELEVATION	DEPTH	FIELD CAPACITY	DATE OF SURVEY	SOIL MOISTURE	LAST YEAR	**AVERAGE

COLUMBIA RIVER BASIN

Kootenai

15B15M	Baree Trail	3800	48	7.5	8/4	3.9	-	-
14A10M	Murphy Lake R.S.	3000	48	22.6	8/1	19.4	-	-
15A02M	Raven R.S.	3050	48	23.0	8/2	17.5	-	-

Flathead

13A02M	Desert Mountain	5600	54	8.4	8/3	5.9	6.3	6.3
13A05M	Marias Pass	5250	54	6.5	-	-	3.4	3.8

Clark Fork

13C15M	Georgetown Lake	6450	48	9.0	8/2	3.9	4.2	4.9
13B19M	Seeley Lake R.S.	4030	48	11.9	8/5	8.3	-	-
13C03M	Skalkaho Summit	7260	48	10.8	8/2	10.3	-	-

Bitterroot

13D18M	Gibbons Pass	7100	48	7.1	7/29	5.3	5.4	5.7
14C05M	Lolo Pass	5250	48	10.6	7/29	6.4	6.4	-

MISSOURI RIVER BASIN

Beaverhead

11E13M	Lakeview	6700	48	15.3	8/2	11.7	9.2	9.1
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Madison

10D04M	Red Bluff	4800	40	4.7	-	-	1.1	1.2
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Gallatin

11D02M	College Site	4856	54	14.5	7/30	9.8	8.4	7.6
11E06M	Twenty-One Mile	7150	48	8.8	7/28	6.1	4.4	-

Missouri Main Stem

10C01M	Kings Hill	7420	48	11.8	8/3	9.4	9.1	-
12C08M	Stemple Pass	6350	48	5.9	7/30	4.7	5.2	-

Yellowstone

10D11M	Battle Ridge	6020	48	17.6	8/2	11.1	12.0	10.6
10D07M	Northeast Entrance	7350	48	9.4	7/31	7.3	5.3	6.8

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THE UNIVERSITY OF CHICAGO

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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THE UNIVERSITY OF CHICAGO

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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SOIL MOISTURE DATA

AS OF SEPTEMBER 1, 1965

(Inches)

SOIL MOISTURE STATION			SOIL PROFILE		CURRENT DATA		PAST RECORD	
NO.	NAME	ELEVATION	DEPTH	FIELD CAPACITY	DATE OF SURVEY	SOIL MOISTURE	LAST YEAR	**AVERAGE

COLUMBIA RIVER BASIN

Kootenai

15B15M	Baree Trail	3800	48	7.5	9/2	5.5	5.2	-
14A10M	Murphy Lake R.S.	3000	48	22.6	9/1	19.6	17.5	-
15A02M	Raven R.S.	3050	48	23.0	9/2	17.4	-	-

Flathead

13A02M	Desert Mountain	5600	54	8.4	9/1	6.9	5.7	4.8
13A05M	Marias Pass	5250	54	6.5	9/4	3.3	3.6	3.6

Clark Fork

13C15M	Georgetown Lake	6450	48	9.0	9/1	3.0	2.7	2.6
13B19M	Seeley Lake R.S.	4030	48	11.9	-	-	-	-
13C03M	Skalkaho Summit	7260	48	10.8	9/1	10.5	-	-

Bitterroot

13D18M	Gibbons Pass	7100	48	7.1	8/30	5.9	5.1	5.0
14C05M	Lolo Pass	5250	48	10.6	8/30	5.6	6.1	-

MISSOURI RIVER BASIN

Beaverhead

11E13M	Lakeview	6700	48	15.3	9/1	7.1	7.8	7.0
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Madison

10D04M	Red Bluff	4800	40	4.7	9/8	1.2	1.6	1.5
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Gallatin

11D02M	College Site	4856	54	14.5	9/3	8.3	8.5	6.8
11E06M	Twenty-One Mile	7150	48	10.0	8/30	3.6	2.5	-

Missouri Main Stem

10C01M	Kings Hill	7420	48	11.8	8/27	9.6	8.6	-
12C08M	Stemple Pass	6350	48	5.9	8/27	4.3	5.3	-

Yellowstone

10D11M	Battle Ridge	6020	48	17.6	9/1	11.1	10.8	8.9
10D07M	Northeast Entrance	7350	48	9.4	8/31	6.0	5.2	5.7

SOIL MOISTURE DATA

AS OF OCTOBER 1, 1965

(Inches)

SOIL MOISTURE STATION			SOIL PROFILE		CURRENT DATA		PAST RECORD	
NO.	NAME	ELEVATION	DEPTH	FIELD CAPACITY	DATE OF SURVEY	SOIL MOISTURE	LAST YEAR	**AVERAGE

COLUMBIA RIVER BASIN

Kootenai

15B15M	Baree Trail	3800	48	7.5	10/4	5.6	5.5	-
14A10M	Murphy Lake R.S.	3000	48	22.6	10/1	18.6	17.2	-
15A02M	Raven R.S.	3050	48	23.0	10/4	18.0	-	-

Flathead

13A02M	Desert Mountain	5600	54	8.4	10/1	7.1	5.6	5.4
13A05M	Marias Pass	5250	54	6.5	9/27	5.8	4.4	3.7

Clark Fork

13C15M	Georgetown Lake	6450	48	9.0	10/1	4.7	2.8	2.6
13B19M	Seeley Lake R.S.	4030	48	11.9			5.4	-
13C03M	Skalkaho Summit	7260	48	10.8	10/1	10.5	-	-

Bitterroot

13D18M	Gibbons Pass	7100	48	7.1	9/29	6.3	5.4	5.2
14C05M	Lolo Pass	5250	48	10.6	10/1	7.1	8.4	-

MISSOURI RIVER BASIN

Beaverhead

11E13M	Lakeview	6700	48	15.3	10/7	6.0	5.4	6.2
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Madison

10D04M	Red Bluff	4800	40	4.7	-	-	1.2	1.9
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Gallatin

11D02M	College Site	4856	54	14.5	10/1	11.9	8.9	6.8
11E06M	Twenty-One Mile	7150	48	10.0	9/28	3.6	1.7	-

Missouri Main Stem

10C01M	Kings Hill	7420	48	11.8	9/30	10.1	8.3	-
12C08M	Stemple Pass	6350	48	5.9	10/1	5.4	4.5	-

Yellowstone

10D11M	Battle Ridge	6020	48	17.6	9/30	14.8	10.4	8.9
10D07M	Northeast Entrance	7350	48	9.4	10/1	8.1	4.6	6.8

THE UNIVERSITY OF CHICAGO

OFFICE OF THE DEAN

The following is a list of the names of the students who have been admitted to the University of Chicago for the year 1911-1912.

FRESHMAN CLASS					Total
First Name	Last Name	Age	City	State	
Abraham	Adams	19	Chicago	Ill.	1
Adams	Adams	19	Chicago	Ill.	2
Adams	Adams	19	Chicago	Ill.	3
Adams	Adams	19	Chicago	Ill.	4
Adams	Adams	19	Chicago	Ill.	5
Adams	Adams	19	Chicago	Ill.	6
Adams	Adams	19	Chicago	Ill.	7
Adams	Adams	19	Chicago	Ill.	8
Adams	Adams	19	Chicago	Ill.	9
Adams	Adams	19	Chicago	Ill.	10
Adams	Adams	19	Chicago	Ill.	11
Adams	Adams	19	Chicago	Ill.	12
Adams	Adams	19	Chicago	Ill.	13
Adams	Adams	19	Chicago	Ill.	14
Adams	Adams	19	Chicago	Ill.	15
Adams	Adams	19	Chicago	Ill.	16
Adams	Adams	19	Chicago	Ill.	17
Adams	Adams	19	Chicago	Ill.	18
Adams	Adams	19	Chicago	Ill.	19
Adams	Adams	19	Chicago	Ill.	20
Adams	Adams	19	Chicago	Ill.	21
Adams	Adams	19	Chicago	Ill.	22
Adams	Adams	19	Chicago	Ill.	23
Adams	Adams	19	Chicago	Ill.	24
Adams	Adams	19	Chicago	Ill.	25
Adams	Adams	19	Chicago	Ill.	26
Adams	Adams	19	Chicago	Ill.	27
Adams	Adams	19	Chicago	Ill.	28
Adams	Adams	19	Chicago	Ill.	29
Adams	Adams	19	Chicago	Ill.	30
Adams	Adams	19	Chicago	Ill.	31
Adams	Adams	19	Chicago	Ill.	32
Adams	Adams	19	Chicago	Ill.	33
Adams	Adams	19	Chicago	Ill.	34
Adams	Adams	19	Chicago	Ill.	35
Adams	Adams	19	Chicago	Ill.	36
Adams	Adams	19	Chicago	Ill.	37
Adams	Adams	19	Chicago	Ill.	38
Adams	Adams	19	Chicago	Ill.	39
Adams	Adams	19	Chicago	Ill.	40
Adams	Adams	19	Chicago	Ill.	41
Adams	Adams	19	Chicago	Ill.	42
Adams	Adams	19	Chicago	Ill.	43
Adams	Adams	19	Chicago	Ill.	44
Adams	Adams	19	Chicago	Ill.	45
Adams	Adams	19	Chicago	Ill.	46
Adams	Adams	19	Chicago	Ill.	47
Adams	Adams	19	Chicago	Ill.	48
Adams	Adams	19	Chicago	Ill.	49
Adams	Adams	19	Chicago	Ill.	50
Adams	Adams	19	Chicago	Ill.	51
Adams	Adams	19	Chicago	Ill.	52
Adams	Adams	19	Chicago	Ill.	53
Adams	Adams	19	Chicago	Ill.	54
Adams	Adams	19	Chicago	Ill.	55
Adams	Adams	19	Chicago	Ill.	56
Adams	Adams	19	Chicago	Ill.	57
Adams	Adams	19	Chicago	Ill.	58
Adams	Adams	19	Chicago	Ill.	59
Adams	Adams	19	Chicago	Ill.	60
Adams	Adams	19	Chicago	Ill.	61
Adams	Adams	19	Chicago	Ill.	62
Adams	Adams	19	Chicago	Ill.	63
Adams	Adams	19	Chicago	Ill.	64
Adams	Adams	19	Chicago	Ill.	65
Adams	Adams	19	Chicago	Ill.	66
Adams	Adams	19	Chicago	Ill.	67
Adams	Adams	19	Chicago	Ill.	68
Adams	Adams	19	Chicago	Ill.	69
Adams	Adams	19	Chicago	Ill.	70
Adams	Adams	19	Chicago	Ill.	71
Adams	Adams	19	Chicago	Ill.	72
Adams	Adams	19	Chicago	Ill.	73
Adams	Adams	19	Chicago	Ill.	74
Adams	Adams	19	Chicago	Ill.	75
Adams	Adams	19	Chicago	Ill.	76
Adams	Adams	19	Chicago	Ill.	77
Adams	Adams	19	Chicago	Ill.	78
Adams	Adams	19	Chicago	Ill.	79
Adams	Adams	19	Chicago	Ill.	80
Adams	Adams	19	Chicago	Ill.	81
Adams	Adams	19	Chicago	Ill.	82
Adams	Adams	19	Chicago	Ill.	83
Adams	Adams	19	Chicago	Ill.	84
Adams	Adams	19	Chicago	Ill.	85
Adams	Adams	19	Chicago	Ill.	86
Adams	Adams	19	Chicago	Ill.	87
Adams	Adams	19	Chicago	Ill.	88
Adams	Adams	19	Chicago	Ill.	89
Adams	Adams	19	Chicago	Ill.	90
Adams	Adams	19	Chicago	Ill.	91
Adams	Adams	19	Chicago	Ill.	92
Adams	Adams	19	Chicago	Ill.	93
Adams	Adams	19	Chicago	Ill.	94
Adams	Adams	19	Chicago	Ill.	95
Adams	Adams	19	Chicago	Ill.	96
Adams	Adams	19	Chicago	Ill.	97
Adams	Adams	19	Chicago	Ill.	98
Adams	Adams	19	Chicago	Ill.	99
Adams	Adams	19	Chicago	Ill.	100

The following is a list of the names of the students who have been admitted to the University of Chicago for the year 1911-1912.

SOIL MOISTURE DATA

AS OF NOVEMBER 1, 1965

(Inches)

SOIL MOISTURE STATION			SOIL PROFILE		CURRENT DATA		PAST RECORD	
NO.	NAME	ELEVATION	DEPTH	FIELD CAPACITY	DATE OF SURVEY	SOIL MOISTURE	LAST YEAR	**AVERAGE

COLUMBIA RIVER BASIN

Kootenai

15B15M	Baree Trail	3800	48	7.5	11/1	5.3	6.1	-
14A10M	Murphy Lake R.S.	3000	48	22.6	11/1	18.9	18.3	-
15A02M	Raven R.S.	3050	48	23.0	11/1	17.7	-	-

Flathead

13A02M	Desert Mountain	5600	54	8.4	11/1	7.1	6.7	5.9
13A05M	Marias Pass	5250	54	6.5	-	-	4.8	4.6

Clark Fork

13C15M	Georgetown Lake	6450	48	9.0	11/2	4.4	2.5	2.8
13B19M	Seeley Lake R.S.	4030	48	11.9	11/1	8.8	-	-
13C03M	Skalkaho Summit	7260	48	10.8	11/2	10.4	-	-

Bitterroot

13D18M	Gibbons Pass	7100	48	7.1	10/29	6.0	5.3	5.7
14C05M	Lolo Pass	5250	48	10.6	11/1	6.8	7.1	-

MISSOURI RIVER BASIN

Beaverhead

11E13M	Lakeview	6700	48	15.3	11/1	5.8	6.4	6.0
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Madison

10D04M	Red Bluff	4800	40	4.7	11/10	2.3	1.5	-
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Gallatin

11D02M	College Site	4856	54	14.5	10/29	9.8	8.0	7.4
11E06M	Twenty-One Mile	7150	48	10.0	10/28	3.4	-	-

Missouri Main Stem

10C01M	Kings Hill	7420	48	11.8	11/1	9.7	8.3	-
12C08M	Stemple Pass	6350	48	5.9	10/29	4.7	4.3	-

Yellowstone

10D11M	Battle Ridge	6020	48	17.6	11/3	13.3	11.6	10.9
10D07M	Northeast Entrance	7350	48	9.4	10/31	8.0	5.3	7.0

SOIL MOISTURE DATA

AS OF DECEMBER 1, 1965

(Inches)

SOIL MOISTURE STATION			SOIL PROFILE		CURRENT DATA		PAST RECORD	
NO.	NAME	ELEVATION	DEPTH	FIELD CAPACITY	DATE OF SURVEY	SOIL MOISTURE	LAST YEAR	**AVERAGE

COLUMBIA RIVER BASIN

Kootenai

15B15M	Baree Trail	3800	48	7.5	12/1	6.3	6.7	-
14A10M	Murphy Lake R.S.	3000	48	22.6	12/1	19.3	18.4	-
15A02M	Raven R.S.	3050	48	23.0	12/1	20.3	20.0	-

Flathead

13A02M	Desert Mountain	5600	54	8.4	-	-	-	-
13A05M	Marias Pass	5250	54	6.5	12/3	5.3	5.3	4.8

Clark Fork

13C13M	Black Pine	7100	48	-	-	-	-	-
13C15M	Georgetown Lake	6450	48	9.0	11/29	4.2	2.9	3.0
13B19M	Seeley Lake R.S.	4030	48	11.9	12/1	9.7	4.6	-
13C03M	Skalkaho Summit	7260	48	10.8	-	-	-	-

Bitterroot

13D18M	Gibbons Pass	7100	48	7.1	11/29	5.7	4.7	5.5
14C05M	Lolo Pass	5250	48	10.6	11/29	7.4	7.1	-

MISSOURI RIVER BASIN

Beaverhead

11E13M	Lakeview	6700	48	15.3	12/3	6.1	6.2	6.9
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Madison

10D04M	Red Bluff	4800	40	4.7	12/4	1.7	-	-
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Gallatin

10D15M	Bridger Bowl	7250	48	-	12/1	14.4	-	-
11D02M	College Site	4856	54	14.5	12/3	10.0	9.5	8.7
10D13M	Lick Creek	6860	48	-	11/30	12.6	-	-
11E06M	Twenty-One Mile	7150	48	10.0	11/29	2.7	1.3	-

Missouri Main Stem

10C01M	Kings Hill	7420	48	11.8	11/29	9.2	7.8	-
12C08M	Stemple Pass	6350	48	5.9	11/29	4.6	4.0	-

Yellowstone

10D11M	Battle Ridge	6020	48	17.6	12/1	13.6	12.9	12.1
10D07M	Northeast Entrance	7350	48	9.4	11/30	7.8	6.0	7.1

GOLF INSTRUCTOR DATA

NAME: _____

DATE	TIME	LOCATION	INSTRUCTOR	STUDENT	COURSE

LESSON PLAN

1. *Swing Fundamentals*

2. *Club Selection*

3. *Ball Position*

4. *Footwork*

5. *Backswing*

6. *Downswing*

7. *Follow-through*

8. *Putting*

STUDENT EVALUATION

9. *Swing Mechanics*

10. *Club Control*

11. *Ball Control*

12. *Footwork*

13. *Backswing*

14. *Downswing*

15. *Follow-through*

16. *Putting*

17. *Swing Fundamentals*

18. *Club Selection*

INSTRUCTOR SIGNATURE

19. *Swing Fundamentals*

20. *Club Selection*

SOIL MOISTURE DATA

AS OF JANUARY 1, 1966

(Inches)

SOIL MOISTURE STATION			SOIL PROFILE		CURRENT DATA		PAST RECORD	
NO.	NAME	ELEVATION	DEPTH	FIELD CAPACITY	DATE OF SURVEY	SOIL MOISTURE	LAST YEAR	** AVERAGE

COLUMBIA RIVER BASIN

Kootenai

15B15M	Baree Trail	3800	48	7.5			-	-
14A10M	Murphy Lake R.S.	3000	48	22.6	12/30	19.3	19.1	-
15A02M	Raven R.S.	3050	48	23.0			21.5	-

Flathead

13A02M	Desert Mountain	5600	54	8.4	12/30	7.2	7.1	6.6
13A05M	Marias Pass	5250	54	6.5			5.4	4.8

Clark Fork

13C13M	Black Pine	7100	48	10.0	12/28	4.8	-	-
13C15M	Georgetown Lake	6450	48	9.0	12/29	3.8	3.0	2.9
13B19M	Seeley Lake R.S.	4030	48	11.9	1/3	9.9	6.9	-
13C03M	Skalkaho Summit	7260	48	10.8	-	-	-	-

Bitterroot

13D18M	Gibbons Pass	7100	48	7.1	12/29	4.9	5.2	5.6
14C05M	Lolo Pass	5250	48	10.6	12/29	6.3	8.5	-

MISSOURI RIVER BASIN

Beaverhead

11E13M	Lakeview	6700	48	15.3	12/31	6.1	11.2	8.5
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Madison

10D04M	Red Bluff	4800	40	4.7	1/3	1.8	2.2	2.1
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Gallatin

10D15M	Bridger Bowl	7250	48	15.8	12/30	14.3	-	-
11D02M	College Site	4856	54	14.5	12/30	11.4	9.8	8.7
10D13M	Lick Creek	6860	48	18.8	12/30	12.3	-	-
11E06M	Twenty-One Mile	7150	48	10.0	12/31	3.1	1.3	-

Missouri Main Stem

10C01M	Kings Hill	7420	48	11.8	12/30	9.1	7.8	-
13C08M	Stemple Pass	6350	48	5.9	1/3	4.4	4.2	-

Yellowstone

10D11M	Battle Ridge	6020	48	17.6	12/30	13.3	14.6	12.2
10D07M	Northeast Entrance	7350	48	9.4	12/31	7.7	5.8	7.0

RESERVOIR STORAGE DATA

AS OF DECEMBER 31, 1965

(1000 Acre Feet)

			USEABLE STORAGE			
BASIN	RESERVOIR	USEABLE CAPACITY	THIS YEAR	LAST YEAR	AVERAGE	
COLUMBIA RIVER BASIN						
Flathead	Hungry Horse	3,428.0	2,839.0	3,222.0	2,954.5**	
	Flathead Lake	1,791.0	1,448.0	1,406.0	1,297.0	
	Camas (Sum of 4)	45.2	27.3	17.0	30.7	
	Mission Valley (Sum of 8)	100.3	53.9	35.2	29.4	
Clark Fork	Georgetown Lake	31.0	28.8	29.6	25.9	
	Noxon Rapids	334.6		330.4	-	
Bitterroot	Como	34.9		9.8	8.8	
	Painted Rocks	31.7		-	15.1**	
MISSOURI RIVER BASIN						
Beaverhead	Clark Canyon	328.9	148.9	55.1	-	
	Lima	84.0	43.7	45.5	25.6	
Ruby	Ruby	38.8		-	15.7**	
Madison	Hebgen Lake	377.5	222.3	220.8	188.0	
	Ennis Lake	41.0	39.3	39.1	36.9	
Gallatin	Middle Creek	8.0	1.2	3.5	3.0**	
Missouri	Canyon Ferry	2,043.0	1,641.0	1,878.0	1,628.5**	
	Hauser & Helena	61.9	61.3	62.4	55.3	
	Lake Helena	10.4	10.2	10.7	8.3	
	Holter Lake	81.9	68.7	67.6	71.2	
	Smith River	10.7		8.1	5.0**	
	Ackley Lake	5.8		-	3.6	
	Durand	7.0		5.2	3.7**	
	Martinsdale	23.1		7.6	7.6**	
	Deadman's Basin	72.2		38.8	40.5**	
	Fort Peck	19,410.0	17,280.0	15,500.0	10,661.1	
	Sun	Gibson	105.0	60.4	40.2	52.5
		Willow Creek	32.3	23.2	15.5	18.8
Pishkun		32.0	18.8	17.5	18.8	
Marias	Lower Two Medicine		-	-	0.3	
	Four Horns	19.2	12.2	-	10.5	
	Swift		-	-	17.4	
	Lake Frances	112.0		-	91.9	
Milk	Tiber	1,347.0	666.3	668.0	624.4**	
	Fresno	127.2	88.8	67.7	61.9	
	Nelson	66.8	53.5	38.5	38.4	
Yellowstone	Lake Sherburne	66.1	8.7	-	17.1	
	Mystic Lake	20.8	15.8	15.1	13.9	
	Tongue River	68.0		-	11.5	
Big Horn	Cooney	27.5	17.0	12.2	10.5**	
	Boysen	550.0	399.4	360.8	255.7**	
	Buffalo Bill	373.1	296.1	179.4	203.0	
	Bull Lake	152.0	155.2	91.1	77.8	
	Yellowtail			-	-	

Agencies Cooperating in Collecting Data Contained in this Bulletin

U. S. Forest Service
Region 1, Missoula, Montana

U. S. Geological Survey
Helena, Montana

U. S. Army Corps of Engineers
Portland, Oregon
Seattle, Washington
Omaha, Nebraska

U. S. Indian Irrigation Service
St. Ignatius, Montana

U. S. Weather Bureau
Helena, Montana

U. S. Bureau of Sports Fisheries
and Wildlife
Red Rock Lakes Refuge
Mojave, Montana

U. S. Bureau of Reclamation
Billings, Montana
Boise, Idaho

U. S. Soil Conservation Service
Montana, Wyoming, Idaho

Soil and Water Conservation Districts
Montana Counties

U. S. Bonneville Power Administration
Portland, Oregon

U. S. National Park Service
Yellowstone National Park
Glacier National Park

Montana Power Company
Butte, Montana

State Water Conservation Board
Helena, Montana

North Montana Branch Station
Agricultural Experiment Station
Havre, Montana

Montana State University
Agricultural Experiment Station
Bozeman, Montana

University of Montana
School of Forestry
Missoula, Montana

Johnson Flying Service, Inc.
Missoula, Montana

Water Rights Branch, Dept. of
Lands and Forests
Victoria, British Columbia

Department of Northern Affairs
and National Resources
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